

DIESEL GENERATOR SET TP1650MA

50HZ

KVA 380V - 415V
 Prime: 1650
 Standby: 1815

KW 380V - 415V
 Prime: 1320
 Standby: 1452

DIMENSIONS & WEIGHT

Open	5600 X 2200 X 2566 (mm)	13,400 (kg)
Enclosed 75	11000 X 3200 X 4500 (mm)	27200 (kg)
Enclosed 85	9000 X 3000 X 4500 (mm)	24500 (kg)

(For Reference Only)

BENEFITS

One-stop service for your power solution and integration.

User friendly control system.

Complete with standard accessories for the convenience of installation.

All gensets are tested before leaving our facilities.

One year limited warranty

POWER DEFINITION

Prime Power

Apply to applications where utility power is unstable or unavailable. At Prime rating, the operating hour is unlimited to the annual hours of operation at variable load. 10% overload power for 1 hour in 12 hours.

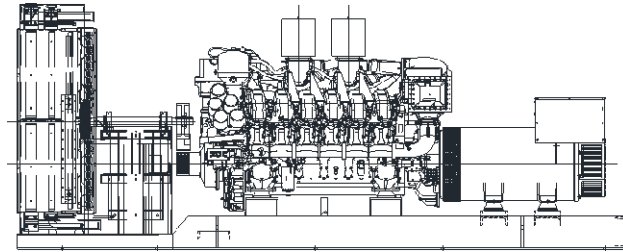
Standby Power

Apply to applications where utility power is reliable. In the event of power interruption, standby power is available at variable load up to the designed rating. There is no overload capacity.

*Power rated in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS5514.

SERVICE & MAINTANENCE

Comprehensive maintenance contract available.



1500RPM

MTU 12V4000G14F

Prime power (kWm)	1420
Standby power (kWm)	1562
Displacement (Litre)	4.77
Bore (mm)	170
Stroke (mm)	210
Cylinder Formation	V Angle
No. of Cylinders	12
Cycle	4
Engine electrics (volt)	24
Piston speed(m/s)	10.5
Mean effective pressure, prime (MPa)	1.98
Mean effective pressure, standby (MPa)	2.18
Governor Type	Electronic

AIR INTAKE

Combustion air, prime (m³/m)	108
Combustion air, standby (m³/m)	117

EXHAUST OUT

Exhaust gas volume, prime (m³/m)	294
Exhaust gas volume, standby (m³/m)	318
Exhaust backpressure (kPa)	8.5
Exhaust gas temperature, prime (°C)	505
Exhaust gas temperature, standby (°C)	520

OIL SYSTEM

Oil pressure normal (kPa)	400
Sump capacity (litre)	260

COOLANT SYSTEM

Coolant Temperature (°C)	95
Coolant flow (l/m)	1433
Coolant capacity (litre)	550
Radiator air flow (m³/m)	1683

FUEL CONSUMPTION (l/h)

110% Load	362
100% Load	329
75% Load	265
50% Load	197

HEAT BALANCE (110%)

Heat content fuel (kWm) @ 42.8MJ/kg	
To work	1562
To water	645
To convection	75

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OPTIONAL

Engine

- Heavy Duty Air Filter
- Fuel Water Separator
- Oil Level Maintainer

Cooling System

- Antifreeze 50/50
- Block Heater
- Remote Radiator
- Heat Exchanger

Alternator

- Medium-Voltage
- Space Heater
- Droop Kit
- RTD
- PMG

Starting System

- Ni-Cad Batteries
- Plante Batteries

Control Box

- Key Start
- Auto-Start
- AMF
- Synchronizing Panel

Electrical System

- 3P/4P MCCB

Fuel System

- Day Tank - Free Standing
- Day Tank - Sub-base
- Storage Tank

Silencers

- Critical Silencer
- Absorptive Silencer

ALTERNATOR

Type	Brushless
Insulation	Class H
Voltage regulation	±1%
Design	IP23
Bearing	Single
Sustained short circuit	300%
Pitch	2/3
Efficiency @ 0.8pf,	
100%	96.4%
75%	96.5%
50%	96.2%

OPERATION REQUIREMENTS

Exhaust Flow Rate - Prime (m ³ /min)	294
Exhaust Temperature - Prime(°C)	505
Maximum Back Pressure (kPa)	8.5

CONTROLLER OPTIONS

AMF Controller

- Stylish, compact and easy to navigate
- Complete Genset monitoring and protection functions
- History log on event and performance for easy troubleshooting
- kWh monitoring
- Built-in Earth Fault & Over Current protection
- Wide range of communication interfaces

Auto Start

- Monitoring, protection, operational status, fault conditions and metering display on back-lit LCD Screen
- Configuration of parameters
- Robust electronics package
- All set points and I/O's configurable via front panel

Key Start

- All at one glance monitoring
- Direct Access, functional and reliable
- Clear labelling
- Low Maintenance

CONTACT US

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